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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	RITY	ANS,							
То:		•	PCT PTON						
·			CITTEN OPINION OF THE IONAL-SEARCHING AUTHORITY						
	·	•	(PCT Rule 43bis.1)						
		Date of mailing (day/month/year)	See form PCT/ISA/210						
Applicant's or agent's file reference.		FOR FURTILER ACTION							
MFR0201PCT		See paragraph 2 below							
International application No. PCT/FR2005/000434	International filing date (24.02.2005	day/month/year)	Priority date (day/month/year) 27.02.2004						
International Patent Classification (IPC) or both national classification and IPC H02K9/06 Applicant VALEO EQUIPEMENTS ELECTRIQUES MOTEUR									
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion									
		Angles - J - CF							
Name and mailing address of the ISA/EP		Authorized officer	•						
To actually Ma	•	Telephone No.							
Facsimile No.	····	Transfer 140.							

International application No.
PCT/FR2005/000434

Box	No. I	Ba	sis of	this o	pinion		-			
1.					, this opinioned under t			ablished on the basis of	of the international application in the language in which it was	
	This opinion has been established on the basis of a translation from the original language into the following language									
						· , w	hich is th	c language of a transl	lation furnished for the purposes of international search (under	
	Rul	e 12.3	and 2	3.,1(b)).	-					
2.	With regardion.	ard to this o	any 1 pinio	nucleot n has bo	ide and/or	r amin hed on	o acid s the basis	séquence disclosed in s of:	n the international application and necessary to the claimed	
:	a. type of material									
	a sequence listing									
	table(s) related to the sequence listing									
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		furn	ished	subseq	uently to th	is Aut	hority for	r the purposes of sear	ch.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.									
4.	∧ddition	ıl comi	ments	s:						
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	Refe	ren	ce	is	made	to	the	tollowing	documents:	
	D1:	US	5 7	793	143					
	D2:	ΕP	1	122	864					
	D3:	EP	0 -	779	697					
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Box		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement		•					
	Novelty (N)	Claims	5-7		YES			
	-	Claims	1-4, 8-18		NO			
	Inventive step (IS)	Claims	5		YES			
		Claims	1-4, 6-18		NO			
e I	Industrial applicability (IA)) Claims	1-18	· 	· YES			
	•	Claims			NO			

- 2. Citations and explanations:
 - **v.1** The present application does not meet the requirements set forth in PCT Article 33(1) in that the subject matter of claims 1-4 and 8-18 does not satisfy the criterion of novelty defined by PCT Article 33(2).
 - V.1.1 Document D1 discloses, in figure 1, a rotor for an alternator comprising two magnet wheels with claws (12, 14) separated by an axial space and disposed opposite one another, each wheel (12, 14) comprising a flange (32, see figure 2B) perpendicular to the axis of rotation and claws (20, 22) extending axially from the flange (32) toward the other wheel (12, 14), the flange (14) of one of the magnet wheels comprising an axial face facing the other wheel (12), while the claws (22) of the same wheel are joined to the flange by respective bases, mutually separated by peripheral spaces (see figures 1, 4), the assembly comprising a fan (24, 28) attached to the axial face of the flange (32) of each wheel (12, 14) that faces the other wheel by a ring-shaped plate (large diameter fan disk 24, 28) bearing blades (40). Part of this fan (36, 38, see figure 4 as well as the disk of fan 24, 28) axially seals the peripheral spaces.

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

define the diameter of the rotor assembly, the solid part (fan disk 24, 28) having an external diameter that is slightly larger than the diameter of the rotor assembly (see figures 5, 10).

A motor vehicle alternator comprising such a rotor assembly is also disclosed.

The subject matter of claims 1, 2, 8, 9 and 18 is therefore not novel with respect to the disclosure of D1.

V.1.2 Document D2 discloses, in figure 6 in combination with figure 5, an alternator rotor of similar structure, particularly comprising a fan (14) attached to the flange of a magnet wheel, the disk of large diameter axially sealing the peripheral spaces between the bases of the claws. Moreover, the parts 20 are axially inclined (triangular shape) from the solid part of the plate on the side of the claws and forms a raised part axial to the "sealing part" that projects from the plate between the claws (see column 6, lines 37-42).

The subject matter of claims 1-4, 8-10 and 18 is therefore not novel with respect to the disclosure of D2.

V.1.3 Document D3 also discloses a rotor of similar structure. The fan formed by the folded plates 54 and 56 (see column 2, line 55) comprises parts 59 and 60, which form a plate that axially seals the peripheral spaces between the bases of the claws (46, 47). The sealing part 60 is axially inclined (its radial width decreasing in the axial direction) from the solid ring-shaped part and

Form PCT/ISA/237 (Box No. V) (January 2004)

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forms an axial raised part that extends from the plate between the claws. Moreover, it appears that the features of claims 9-18 are also known from D3 (see figure 3).

The subject matter of claims 1-4 and 8-18 is therefore not novel with respect to the disclosure of D3.

V.2. The features of claims 6 and 7 do not seem to produce a technical effect that would justify an inventive step with respect to the rotor assemblies of D1 or D2.

The subject matter of claims 6 and 7 therefore does not involve an inventive step (PCT Article 33(3)).

V.3 The features of claim 5 are neither known nor suggested in any of the available prior art documents and allow for a simple and effective attachment of the fan to the rotor while providing a reduced sound level (see page 2, lines 1-3).

The subject matter of claim 7 therefore involves an inventive step (PCT Article 33(3)).

Certain documents cited

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1. Certain published documents (Rule 43bis.1 and 70.10)
EP04075119 04.08.2004 16.01.2004 29.01.2003

This European application, published under the number EP1441627 (D4), may be considered prejudicial to the novelty of claims 1-4 and 6-18 of the present application (see D4, figures 2 and 4 and the corresponding description) in certain States during the regional phase.

2. Non-written disclosures (Rule 43bis.1 and 70.9)

Box No. VI

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)

see form 210

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The technical meaning of the expression "at least partially comprising a fan" is unclear; a rotor assembly may or may not comprise a fan, but not "partially". Claim 1 is therefore unclear in the sense of PCT Article 6.